3

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ACCESSION NR: AP5017038

at the epicenter of the explosion, A and B are constants, ur is the horizontal component of ground dislocation, D is a constant which depends on the elastic properties of the medium, u is the Lame coefficient, r is the distance from the epicenter of the explosion to the earth's surface, • is the wave front, Y is the heat capacity of gas, and b is the velocity of the transverse wave. The formula

 $E_{R}(\Delta) = \frac{8\pi^{3}c_{R}Dp_{1}^{2}}{b^{2}\mu} \left(\frac{a}{\sqrt{\gamma}c_{R}}\right)^{2}QB[I_{1}(\xi_{0},\eta) + I_{2}(\xi_{0},\eta) + I_{3}(\xi_{0},\eta)]$

was used for atmospheric explosions. These formulas show that the dependence of the energy E_R (Δ) on explosion parameters varies with the distance from the epicenter. The latter formula shows that for each atmospheric explosion, for each charge size and fixed epicentral distance, there is a particular explosion ellitude at which the seismic energy observed at that distance is maximum. Orig. altitude at which the seismic energy observed at that distance is maximum. [ER]

ASSOCIATION: Akademiya nauk SSSR. Institut fiziki Zemli (Academy of Sciences SSSR. Institute of Physics of the Earth)

Card 3/4

L 3171-66 ACCESSION NR: AP5017038 SUBMITTED: 24Apr64 NO REF SOV: 005 OTHER: 001 ATD PRESS: 4033				· · · · · ·	A		 	
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ACC NRI AP6036355

SOURCE CODE: UR/0387/66/000/011/0017/0028

AUTHOR: Kogan, S. Ya.

ORG: Academy of Sciences, SSSR, Institute of Physics of the Earth (Akademiya nauk SSSR) Institut fiziki Zemli)

TITLE: Brief review of theory of absorption of seismic waves. II

SOURCE: AN SSSR. Izvestiyga, Fizika Zemli, no. 11, 1966, 17-28

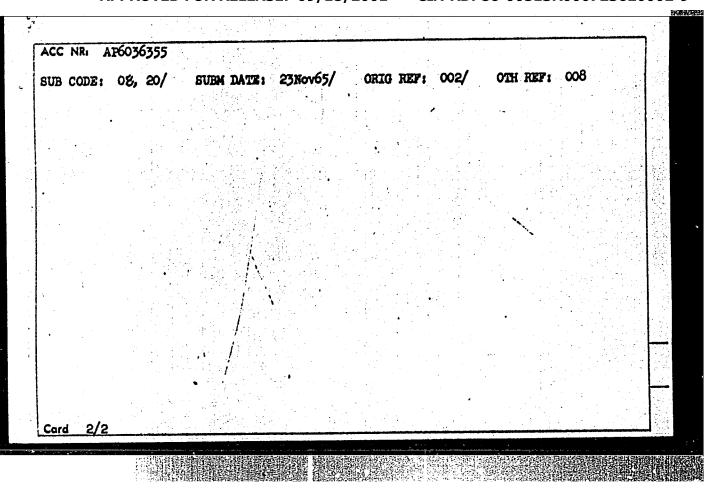
TOPIC TAGS: seismic wave, seismology, equation of state, wave propagation, absorption coefficient

ABSTRACT: Part I is published in the same issue of the source (Acc. No. AF6036354). The second part is devoted to modern theories of absorption of seismic waves in real media, namely Deryagin's elastic aftereffect theory, Lomnitz'es aftereffect equation, and the theories of Gurevich, Futerman, Kolsky, Knopoff, and MacDonald. The feature common to all these theories is that they attempt to explain the disparity between the experimental data and the classical equations of state described in the first part of the article. The advantages and shortcomings of each of the methods are briefly described. It is pointed out in the conclusion that at present there is still no regular and regress theory of absorption of seismic energy in a real medium, and that only Gurevich's phenomenological theory agrees best with the observed experimental data on the behavior of the coefficient of absorption with the frequency, depth, and ital dependence on the wave propagation velocity. Orig. art. has: 7 figures and 14 formulas.

Cord 1/2

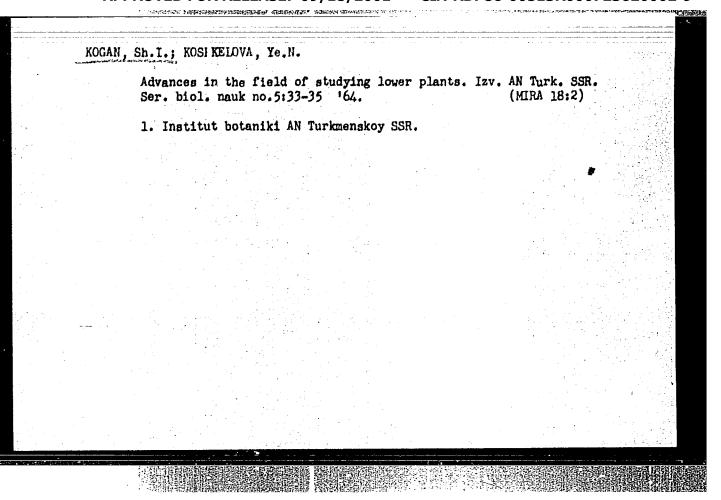
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(Clothing industry) (Wage payment systems)		Practices in the organization of the wage payment system in clothing enterprises. Shvein.prom. no.2:7-9 Mr-Ap	for workers 161. (MIRA 14:4)
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KOGAN,	S. Yu. [Kohan, S. IU.]		
	Planning in the clothing in stry according to the nor production costs. Leh. prom. no.4:36-40 0-D 164 (MIRA	ms of	
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	Domain formation in semiconductors with negative differential resistance. Fiz. tver. tela 7 no.1:23-27 Ja '65. (MIEA 18:1)		
	1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova i Institut radiotekhniki i elektroniki AN SSSR.		
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KOGAN,	Sham.; LIFSHITS, T.M.; SIDOROV, V.I.		
	Photoconductivity due to optical transitions between impu	ıri ty	
	centers. Fiz. tver. tela 6 no.11:3294-3300 N '64.	(MIRA 18:1)	
	1. Institut radiotekhniki i elektroniki AN SSSR, Moskva.		
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KOGAN, Sh.M.; SANDOMIRSKIY, V.B.

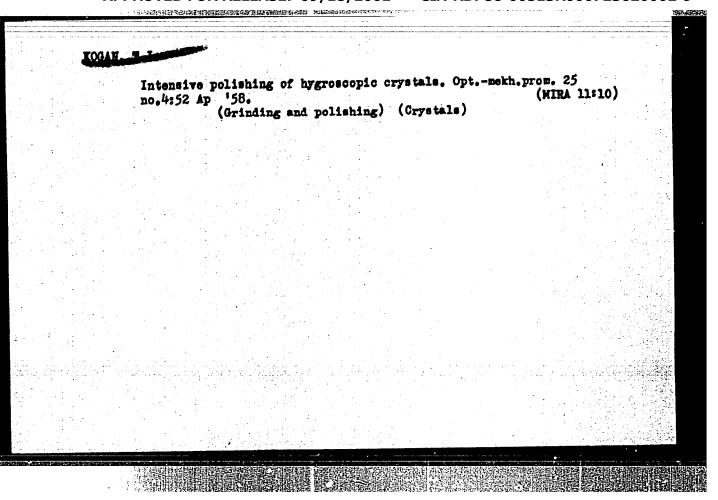
Interaction between an ultrasonic wave and a beam of charged particles. Fiz. twer. tela 6 no.11:3457-3463 N '64.

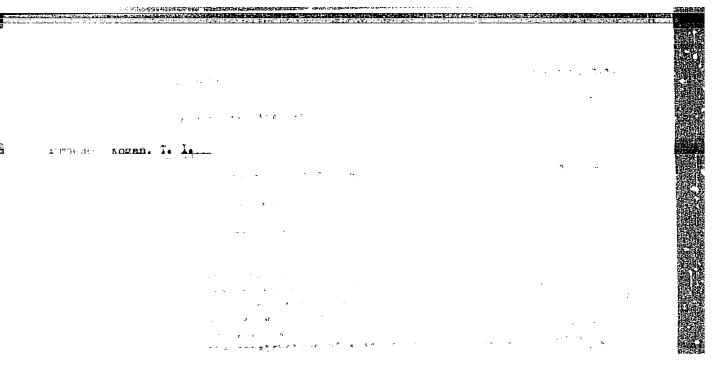
1. Institut radiotekhniki i elektroniki AN SSSR, Moskva.

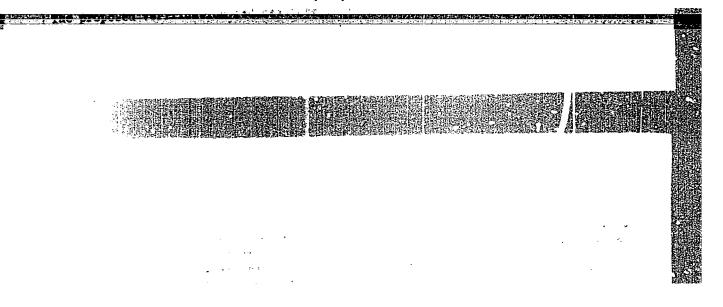
(MIRA 18:1)

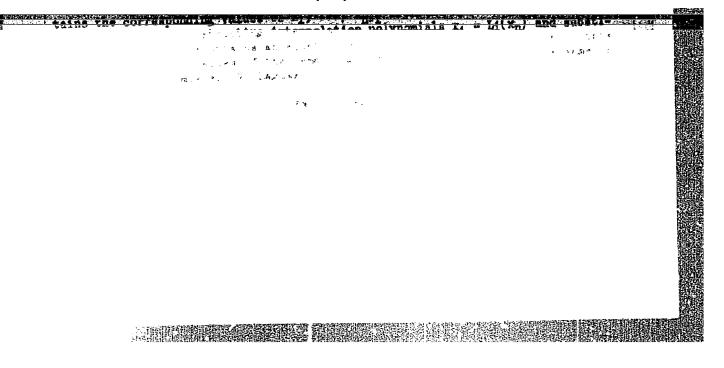
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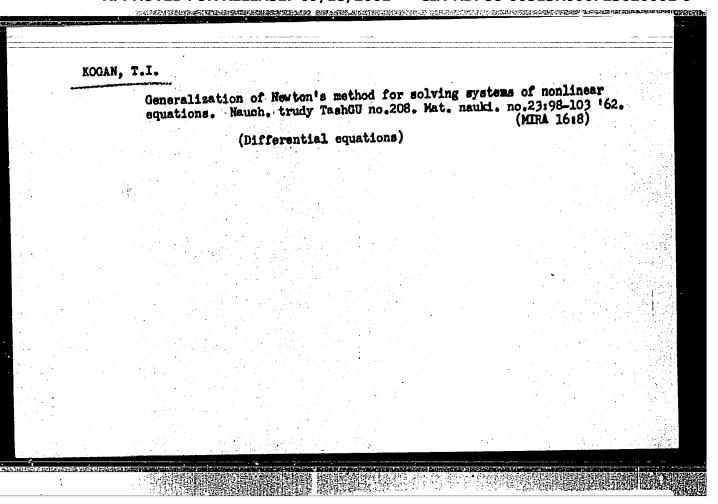
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ACCESSION NR: AP4037258

8/0208/64/004/003/0545/0546

AUTHOR: Kogan, T. I. (Tashkent)

TITLE: Construction of iteration processes of high orders for systems of algebraic and transcendental equations

SOURCE: Zhurnal vy*chislitel'noy matematiki i matematicheskoy fiziki, v. 4, no. 3, 1964, 545-546

TOPIC TAGS: iteration process, algebraic equation, transcendental equation, linear functional system, Kramer rule, Newton method

ABSTRACT: The author shows how to combine two approximation methods to yield one of higher order under certain conditions. He generalizes this to combining a such processes and gives an example. Orig. art. has: 12 formulae and 1 table.

ASSOCIATION: none

SUB CODE: MA

SUBMITTED: 05Jul65

DATE ACQ: 09Jun64

NO REF SOY: OOO

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Cord 1/1

Photocolorimetric method for the determination of the activity of adoniside. Med.prom. 14 no.2:46-48 F 160. (MIRA 13:5)
1. Leningradskiy khimiko-farmatsevticheskiy institut i Leningradskiy khimiko-farmatsevticheskiy savod No.1.
(GOLORIMITAY) (ADONIS)

SMULTARSKATA, P.G.; KOGAN, T.M. Photocolorimetric method of determining the activity of adomis extract. Med.prom. 14 no.3:42-44 Mr *60. (MIRA 13:6) 1. Leningradskiy khimiko-farmatsevticheskiy institut i Leningradskiy khimiko-farmatsevticheskiy saved No.1. (COLORIMETRY) (ADOMIS)

SHOLYANSKAYA, P.G.; KOGAN, T.M.

Photocolorimetric method for determining the glycosides in Adonis. Med. prom. 14 no. 4:41-42 Ap '60. (NIRA 13:6)

1. Leningradskiy khimiko-farmatsevticheskiy institut i Leningradskiy khimiko-farmatsevticheskiy savod Mo.1.
(GCLORIMETRY) (ADOMIS) (GLYCOSIDES)

MOGAN, I. N

ASTROVED FOR ANIMALS, Pathogenic Fungi and Actinomyces.

Abs Jour: Ref Zhur-Biol., 1958, No 17, 76859.

Author : Arlyevich, A. M. ; Yanov, Ye. I.; Kogan, T. N.

Inst : Not given.

Title : Case of Yeast Pneumonia and Yeast Sepsis (Candidasepsis) in Connection with Treatment by Antibiotics.

Orig Pub: Terapevt. arkhiv, 1957, 29, No 6, 38-43.

Abstract: A case is described of candidamicosis of the lungs erroneously diagnosed as infiltrative tuberculosis. Treatment with antibiotics (penicillin, streptomycin, and biomycin) caused a sharp deterioration; the patient died from yeast sepsis. The problem of differential diagnosis of yeast pneumonia is set forth. The isolation of the fungus in a Sabouraud's culture medium without its simultaneous discovery in a native

Iz protivotuberkuleznogo dispensera No.13 (zav. stantsionarnym Card 1/2 otdeleniyem Ye. I. Yanov), patologoanatomicheskogo otdeleniya bol'nitsy imeni Botkina (nauchnyy konsul'tant N.A.Krayevskiy) i mikologicheskogo otdela Tsentral'nogo konzhno-venerologicheskogo instituta

TEPLITSKAYA, Ye.S.; MALAYA, L.P.; HIRGORODSKAYA, A.K.; SHEYKO, Z.A.;

KOGAN, TS.L; OSIPOVA, Ye.S.; GIRGORASH, N.G.; PANKRATOVA, V.S.;

GORRACHEVA, L.Ye.

Species of dysentery pathogens encountered in 1959 in certain regions of Dnepropetrovsk Province and their sensitivity to the dysentery bacteriophage and antibiotics. Vrach. delo no.9:116-118 S '61.

(DNEPROPETROVSK PROVINCE—SHIGELIA)

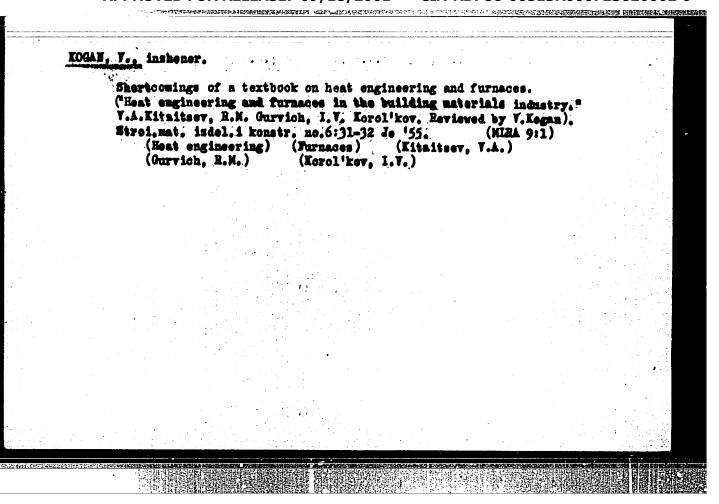
(BACTERIOPHAGE)

(ANTIBIOTICS)

HUDAYMAZAROV, G.; ECCAH, V.

Bitumens in the Gaurdak sulfur deposit. Isv. AH Turk. SSR no.5;
76-77 '58. (MIRA 11:12)

1.Institut geologii AH Turkmenskey SSR.
(Gaurdak---Bitumen)



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MINKIN,	V.I.; OSIPOV, O.A.; KOGAN, V.A.	
	Dipole moments and absorption spectra of o-hydroxyal Dokl.AN SSSR 145 no.2:336-339 Jl 162.	ldehyde anils. (MIRA 15:7)
	l. Rostovskiy-na-Domi gosudarstvennyy universitet. akademikom B.A.Arbusovym. (Schiff Bases-Dipole moments)	Predstavleno

5 (4)

AUTHORS: Zhdanov, Yu. A., Osipov, O. A.,

SOV/20-128-4-23/65

Shelepin, O. Ye., Kogan, V. A.

TITLE:

The Dipole Moments and Structure of Some Derivatives of

Perinaphthindenone

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 4, pp 719 - 721

(USSR)

ABSTRACT:

Perinaphthindenone (I) and benzanthrone (IV) having weak or no characteristic ketone properties (Refs 1,2) form very solid complex compounds with protonic and aprotonic acids (Refs 2-4). This suggests a considerable polarity of the C = 0 bond. The instability of perinaphthindene and benzanthrene is expressed by their tendency of passing over into a stable oxidized state. The possible existence of a perinaphthindenyl cation, produced recently as a complex salt (Ref 5), had been presumed earlier (Ref 6) although the attempt at producing it had failed. The calculations of the binding energies in the perinaphthindene system by the method of molecular orbits showed that a cationoid state with a 12n-electron assembly is energetically advantageous for this system. The system is aromatic if it has this assembly (Ref 7). Thus, an intraionic binding character of *C - O

Card 1/4

The Dipole Moments and Structure of Some Derivatives 50V/20-128-4-23/65 of Perinaphthindenone

can be assumed (according to Ref 8) for the carbonyl compounds of the perinaphthindene series where the negative charge is localized on the oxygen, while the positive one is distributed over the entire carbon system. An extensive analogy of the properties of tropone (II) and perinaphthindenone permits the reduction of its structure to that of perinaphthindenyl oxide (Ia), using also the analogy with tropil oxide (IIa) (see Diagram). For perinaphthindenone, a considerable dipole moment (in the magnitude of 4D) can be expected, all the more so as tropone has a moment between 4.17 and 4.30 D (Ref 9). To clarify this problem, the authors measured the dipole moments of perinaphthindenone and some of its derivatives. Table 1 presents the results showing that the dipole moment in dioxane is reduced by 3.72 D by the introduction of bromine into the nucleus of perinaphthindenone, and in benzanthrone by 1.19 D. The introduction of a benzonal nucleus reduces it by 0.5-0.6 D. On the other hand, the dipole moment increases by the introduction of an oxy group into position 7 of perinaphthindenone (V). An intramolecular cycle with a hydrogen bond is formed. Thus, the negative charge of the carbonyl oxygen is stabilized,

Card 2/4

The Dipole Moments and Structure of Some Derivatives SOV/20-128-4-23/65 of Perinaphthindenone

and the C = O group is taken out of the conjugation with the ground skeleton of the molecule due to intracyclic exchange processes via the hydrogen bond. In contrast to the above, the tropolone has a dipole moment much too low (3.7 D) as compared with the tropone. The value of the dipole moment of the complex C₁₃H₈OSbCl₅ (8.50 D) permits assumptions as to its structure: cationoid structure of perinaphthindenylium with a transition of the electron configuration of the antimony atom into the state d²sp³ (similar to HSbCl₆). The oxygen atom effects a peculiar binding between the cationoid radical of perinaphthindenylium and the antimony atom as one of the addenda of the latter, participating in the coordination sphere with only one of its valences. There are 1 table and 11 references, 6 of which are Soviet.

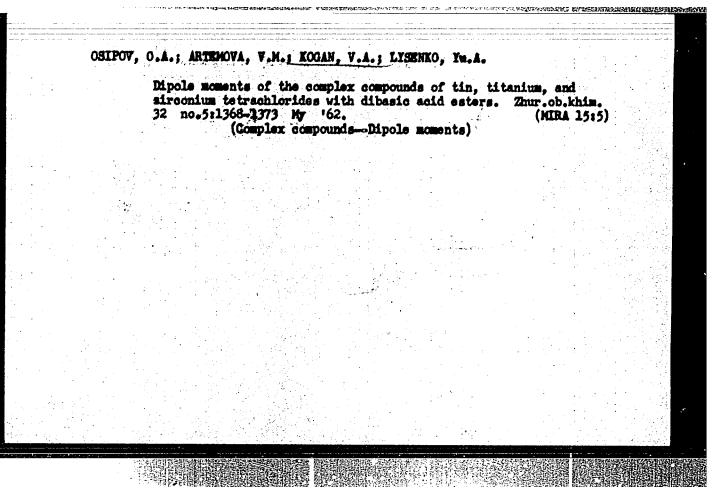
ASSOCIATION:

Rostovskiy-na-Donu gosudarstvennyy universitet (Rostov-na-Donu State University)

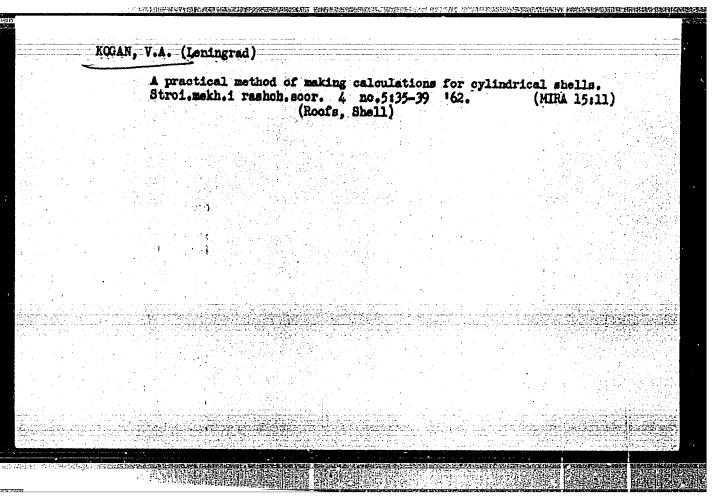
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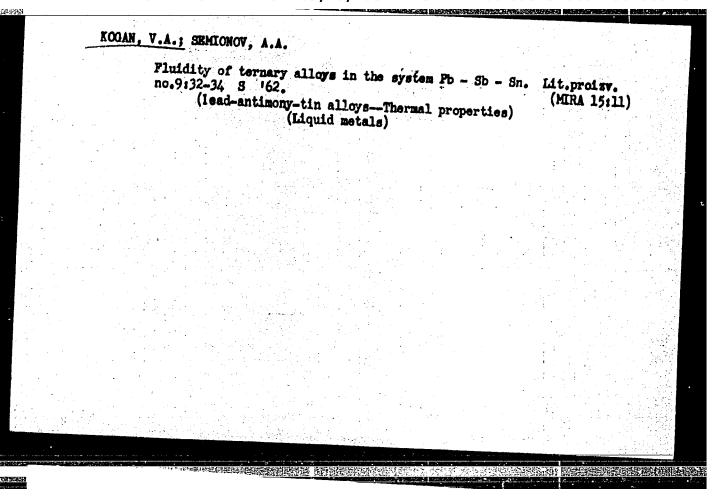
KOGAN, V. A., Cand. Tech. Sci. (diss) "Typographic Alloys of the System Lead - Antimony - Tin, Investigation of Their Properties and Development of Optimal Compositions for Polygraphic Industry," Moscow, 1961, 36 pp. (Moscow Polygraphic Inst.) 200 copies (KL Supp 12-61, 268).

	A THE PROPERTY OF THE PROPERTY	
Kogan,	V.A.; LYUSTERNIK, V.Ye.	
	Investigating the heat capacity and melting point of lead alloys. Inshfiz. zhur. 4 no.4:105-108 Ap '61. (MIRA 14:5)	
	1. Institut poligraficheskoy promyshlennosti, g. Moskva. (Lead alloys-Thermal properties)	
	고 보고 있다. 그 사용 전환 경험 전환 경험 보는 사용 전환 전환 경험 전환 경험 경험 전환 경험	
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	Effect of the chemical structure anions on the polarity of community o	ture of organic complex. mplex compounds. Zhur.	-forming fiz. khim. (MIRA 15:6)
	1. Rostovskiy universitet.	(Complex compounds)	



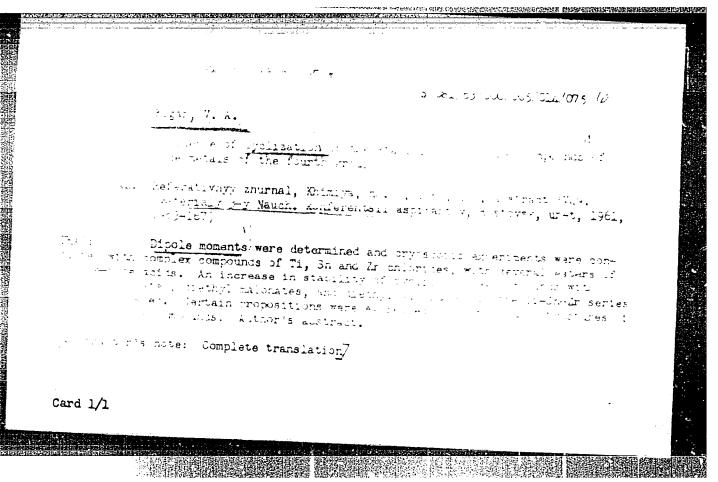


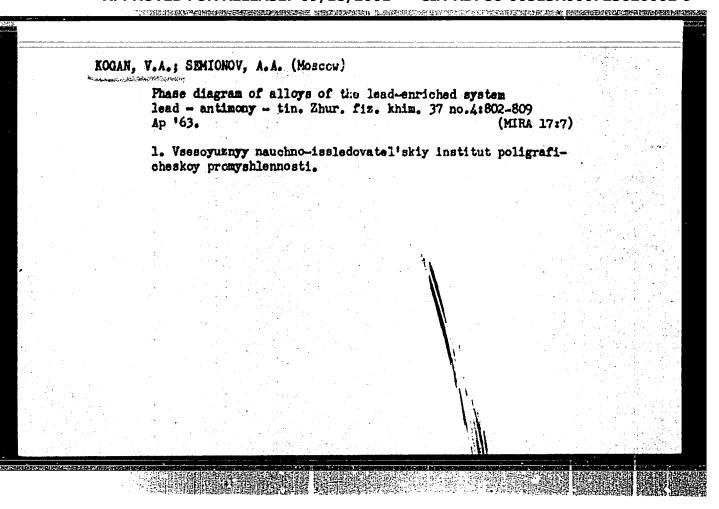
KOGAN, V.A., kand.tekhn.nauk; SEMIONOV, A.A., kand.tekhn.nauk

Shrinkage of alloys in the lead corner of the system
lead - antimony - tin. Metalloyed. i term. ohr. met.
no.ll:31-36 N'62.

(MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut
poligraficheskoy promyshlemosti.
(Lead alloys—Testing)



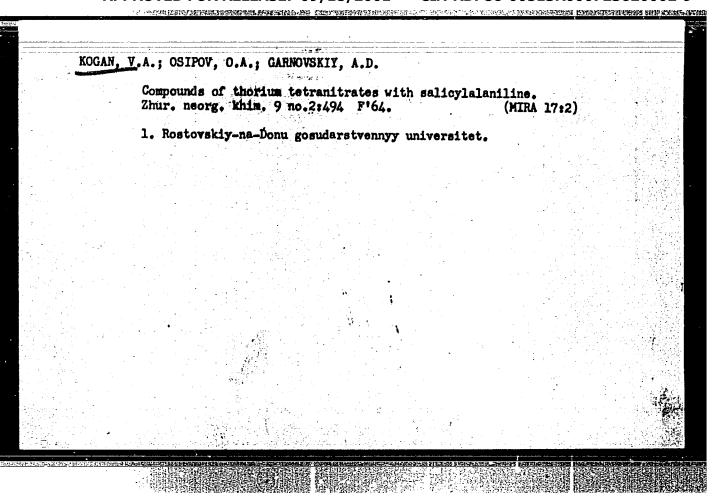


osi pov,	O.A.; MINKIN, V.I., KOGAN, V.A.	
	Dipole moments and the structure of o-hydroxyaldehyde anils. Zhur.fis. khim. 37 no.7:1492-1499 J1 163. (MIRA 17:2)	
	1. Rostovskiy-ns-Donu gousdarstvennyy universitet.	

KOGAN, V.A.; OSIPOV, O.A.; MINKIN, V.I.; GORELOV, M.I.

Dipole moments and structure of inner-complex compounds of copper with aromatic Schiff bases. Dokl. AN SSSR 153 no.3; 594-596 N '63. (MIRA 17:1)

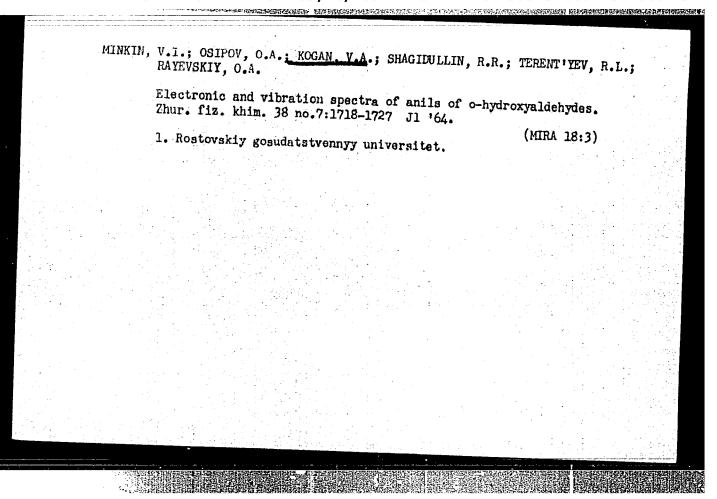
1. Rostovskiy-na-Donu gosudarstvennyy universitet. Predstavleno akademikom V.I. Spitsynym.



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ACC NR. AR6016194	FOURCE CODE. UR/0058/65/000/011/D026/D026
AUTHOR: Osipov, O. A.; Semenova, I. M	Kogan, V. A.; Minkin, M. I.; Sokolov, V. L.
TITLE: Infrared spectra of gallium, i organic ligands	ndium, titanium, and tin chlorides with some
SOURCE: Ref. zh. Fizika, Abs. 11D203	56
REF SOURCE: Tr. Komis. po spektroskop	11. AN 658R. t. 3. wp. 1 1064 76 92
TOPIC TAGS: spectrum analysis, chloric	de, IR spectrum, gallium, indium, titenium, tin
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ABSTRACT: An infrared spectrum analysitics of interaction between gallium and ketone, cyclohexanone, acetophenone, becompounds. [Translation of abstract.]	is was used for the study of the characteris- l indium chlorides with acetone, methylhexyl
ABSTRACT: An infrared spectrum analysitics of interaction between gallium and ketone, cyclohexanone, acetophenone, be	is was used for the study of the characteris- i indium chlorides with acetone, methylhexyl enzophenone, and some other oxygen-containing
ABSTRACT: An infrared spectrum analysitics of interaction between gallium and ketone, cyclohexanone, acetophenone, becompounds. [Translation of abstract.]	is was used for the study of the characteris- i indium chlorides with acetone, methylhexyl enzophenone, and some other oxygen-containing
ABSTRACT: An infrared spectrum analysitics of interaction between gallium and ketone, cyclohexanone, acetophenone, becompounds. [Translation of abstract.]	is was used for the study of the characteris- i indium chlorides with acetone, methylhexyl enzophenone, and some other oxygen-containing
ABSTRACT: An infrared spectrum analysitics of interaction between gallium and ketone, cyclohexanone, acetophenone, becompounds. [Translation of abstract.]	is was used for the study of the characteris- i indium chlorides with acetone, methylhexyl enzophenone, and some other oxygen-containing
ABSTRACT: An infrared spectrum analysitics of interaction between gallium and ketone, cyclohexanone, acetophenone, becompounds. [Translation of abstract.] SUB CODE: 07/ SUBM DATE: none	is was used for the study of the characteris- i indium chlorides with acetone, methylhexyl enzophenone, and some other oxygen-containing



KOGAN, V.A.; OSIPOV, O.A.; MINKIN, V.I.; SOKOLUV, V.P.

Structure of titanium and tin complex compounds with some aromatic Schiff bases. Zhur, neorg. khim, 10 no.1:83-88
Ja '65.

(MIRA 18:11)

1. Rostovskiy-na-Donu gosudarstvennyy universitet. Submitted July 24, 1963.

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- 1. KOGAN, V.A.: PINES, H.YA.
- 22. USBR (600)
- 4. Metallurgical Analysis
- 7. Micro- method in the phase analysis of alloys. Dokl. AN SSSR 87, No. 6, 1952

9. Monthly List of Russian Accessions, Library of Congress, March, 1953. Unclassified.

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21780

S/170/61/004/004/012/014 B125/B203

AUTHORS:

Kogan, V. A., Lyusternik, V. Ye.

TITLE:

Study of specific heat and heat of fusion in alloys on the basis of lead

PERIODICAL: Inzhenerno-fizioheskiy zhurnal, v. 4, no. 4, 1961, 105-108

TEXT: The authors determined the true specific heats and heats of fusion of the alloys mentioned in Table 1 between 20 and 500°C in an adiabatic calorimeter by the method of continuous heating of the alloy studied. The study of the specific thermal capacity of the solid and liquid phases of alloys of the system lead - antimony - tin is theoretically and practically very interesting since these alloys are used more and more in machine building, in the polygraphic industry, and as thermophores for heat exchangers. Table 1 gives the chemical compositions of the alloys investigated. The rate of heating in these processes was 3 - 3.5 deg/min. In all experiments, the specific heat, c, slightly decreased in the range of 20-150°C, and then increased rapidly up to the melting point (a sharp peak of the specific heat occurs in melting). In the liquid alloy, the Card 1/7

21780

Study of specific heat ..

S/170/61/004/004/012/014 B125/B203

specific heat decreased rapidly from the melting point. The complicated character of temperature dependences of the specific heat near the melting point, found for all alloys and particularly for alloy 1 (Fig. 1), was due to the existence of several components in the alloy. The additive law of specific heats (Neumann-Kopp's rule) satisfied quite well the solid and liquid states of the alloy, but for the liquid phase this law agreed with the experiment only at a considerable distance from the melting region, which was particularly distinct in alloy no. 1. The increase in temperature is much delayed when the melting begins (in the passage through the solidus). For calculating the heat of fusion of the alloy q fus (Table 2), the energy Q (kcal/min) supplied to the specimen is multiplied with the duration At (in minutes) determined from the melting thermogram. The fraction of heat used for heating the pot and the calorimeter (having the specific heat A (kcal/deg)) must be taken into account. Thus, $q = (Q\Delta \tau_{fus} - A\Delta t_{fus})/G$, where Δt_{fus} denotes the temperature range t liq - t sol, and G the weight of the alloy in g. The determination of the heat amount required for heating the liquid alloy by ~50°C above the Card 2/7

Study of specific heat ...

21780 S/170/61/004/004/012/014 B125/B203

melting point is interesting for practical purposes. This amount of heat is determined like q_{fus} from the melting thermogram. The authors then calculated the heat content i and the mean specific heat from 20 to $t^{O}C$

on the basis of data of true thermal capacity. $i = \int_{20}^{t} c dt$ (2) holds for

the alloy in kcal/kg. This integral is determined by graphic integration of the curves in Fig. 1. The mean specific heat (Tables 2,3) is calculated from the formula $c_m = i/(t-20)$ (3), i being determined from

(2). The value of i for the temperature t can be determined from (3); c_m is taken from Table 3 for the temperature t. The authors thank A. A. Semionov for valuable advice. There are 2 figures, 3 tables, and 2 Soviet-bloc references.

ASSOCIATION: Institut polygraficheskoy promyshlennosti g.Moskva (Institute of Printing Trade, Moscow)

SUBMITTED: July 29, 1960 Card 3/7

KOGAN, Vladimir Borisovich; FRIDMAN, Viktor Mikhaylovich; KAPAROV,
Viktor Vyacheslavovich; SUTKOVA, T.I., red.izd-va; GALIGANOVA,
L.M., tekhn. red.

[Handbook on solubility]Spravochnik po rastvorimosti. Moskva,
Isd-vo Akad. nauk SSSR. Vol.2. [Ternary multicomponent systems]
Troinye, mnogokomponentnye sistemy. Book 1. 1963. 943 p.
(MIRA 16:1)

1. Moscow. Vsesoyusnyy institut nauchnoy i tekhnicheskoy informatisi.
(Systems (Chemistry)) (Solubility)

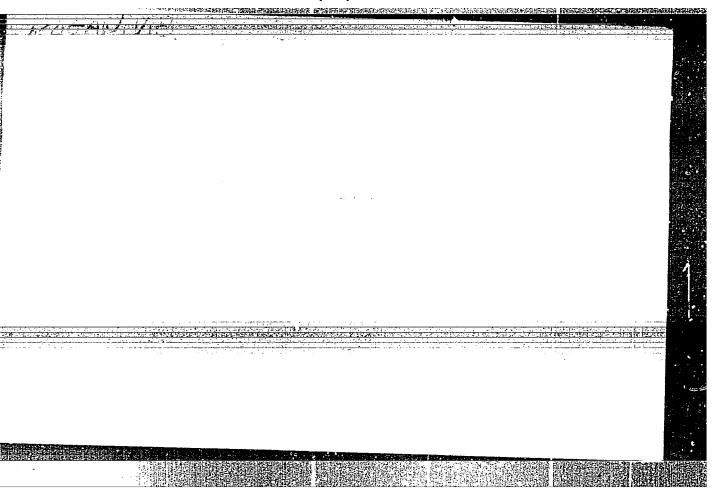
2018年2018年,2018年2018年2018年2018年2018年2018日 **医多伦斯亚亚纳达克亚纳 联邦的 异亚非亚纳的异亚**

GUREVICH, D.M.; KOCAN, V.A.; RATINER, M.M.

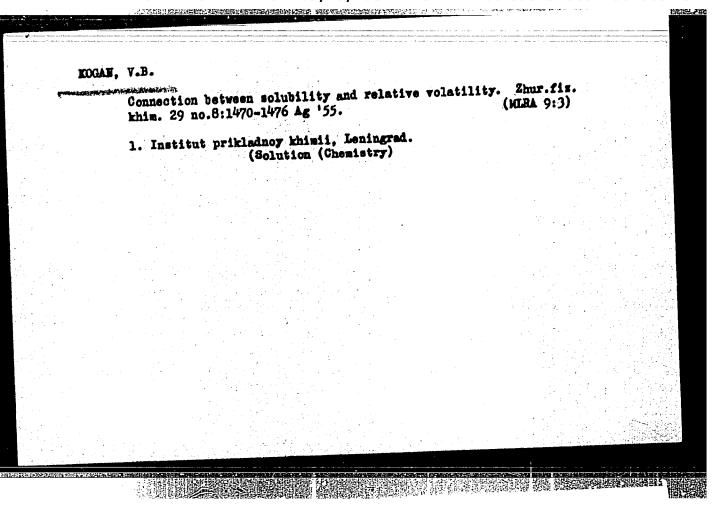
Program controlled four-spindle drilling machine. Biul.tekh.-ekon. inform.Gos.nauch.-issl.inst.nauch.i tekh.inform 17 no.11:45-46 N (MIRA 18:3)

Separation of Vapor-Liquid Mixtures. Thesis for degree of Cand. Technical Sci. Sub 23 Jan 50, Moscow Inst of Fine Chemical Technology imeni M. V. Lomonosov.

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskya, Jan-Dec 1950.



FD-154 i USSR/Chemistry - Electrolysis : Pub. 50-4/25 Card 1/1 Kogan, V. B., Cand Tech Sci; Ovsepyan, R. R. Author : Internal leakages of current at electrolysis installations Title : Khim. prom., No 8, pp 465-69 (15-21), Dec 1954 Periodical : Discusses the theory of losses of current in electrolytic cells and Abstract recommends measures for reducing them. Four references, 2 USSR, one of them since 1940. Five figures, 6 tables. Institution Submitted



UCCR/ remistry - Physical chemistry Pub. 147 - 6/22 Card 1, 1 Authors 1 Kogan, V. B. t The properties of tri-component accouraged systems formed by components Title of limited mutual solubility Pariodical : Zhur. fiz. khim. 29/11, 1984-1988, Nov 1955 abstract of the archives the properties of binary and tri-component ageotropic systems showed the existence of a class of the contract of the contrac The shown that the component azeotropic - The A PRIALIVE-Institution: Institute of Applied Chemistry, Leningrad Submitted : December 31, 1954 REAL PROPERTY AND THE P

KOGAN, V.B.

USSR/Thermodynamics. Thermochemistry. Equilibria. Physico-Chemical B-8

Analysis. Phase Transitions.

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26178

: V.B. Kogan, I.V. Deyzenrot, T.A. Kul'dyayeva, V.M. Fridman : Solubility in Systems Consisting of Methanol, Water and Nor-Author

Title mal Paraffin Hydrocarbons.

Orig Pub : Zh. prikl. khimii, 1956, 29, No 9, 1387-1392

Abstract : The mutual solubility (MS) in binary systems consisting of

methanol I and n-hexane II, n-heptane III n-octane and n--nonane, as well as in ternary systems containing water besides the above mentioned components was studied at 2 to 450. The MS of methanal, water and normal hydrocarbons at temperatures between 20 and 100 decreases with the increase of the molecular weight of the hydrocarbon and changes very little with the temperature drop within the range of

from 20 to 100.

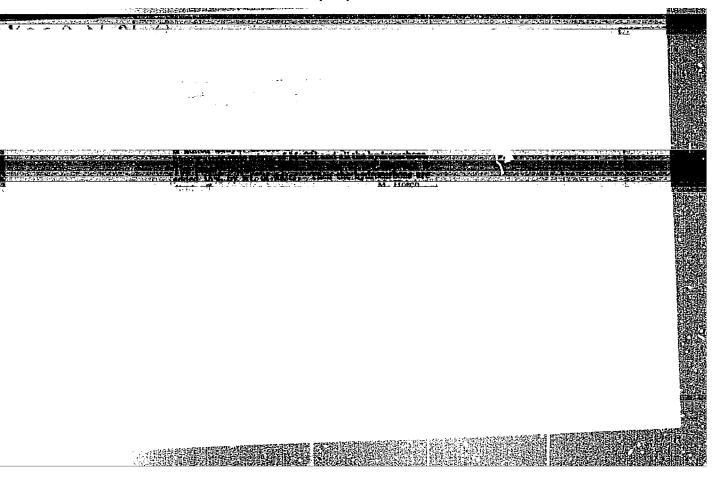
: 1/2 State OLRB Ind. applied Chemi Card

doktor tekhn.nauk, prof., redaktor; TOMARCHENKO, S.L., redaktor; LEVIN, S.S., tekhnicheskiy redaktor; ERLIKH, Ye.Ya., tekhnicheskiy redaktor.

[Manual on equilibria between fluids and vapors in binary and multicomponent systems] Spravochnik po ravnovesitu meshdu multicomponent systems] Spravochnik po ravnovesitu meshdu shidkost'iu i parom v binarnykh i mnogokomponentnykh sistemakh. Pod red. V.V.Kafarova. Leningrad, Gos.nauchno-tekhn.isd-vo khim. (MIRA 10:11) 11t-ry, 1957. 497 p.

(Systems (Chemistry)) (Chemical equilibrium)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723620002-9"



KOGAN, V.B.

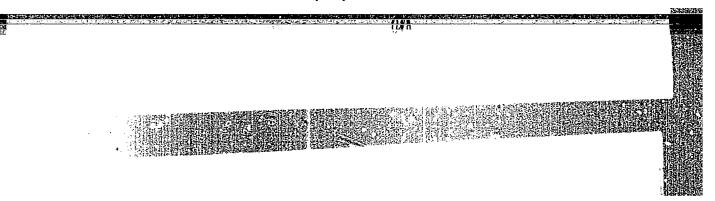
On I.M. TSinaris' remark on V.V. Kafarov and L.A. Gordievskil's paper entitled "Basic principles of selecting a solvent for the separation of assotropic systems by means of extractive distillation". Zhur.prikl. (MLRA 10:5) khim. 30 no.3:498-500 Mg. 157. (Assotropy) (Distillation, Fractional)

Determining the composition of tricomponent systems by measuring one property. Zhur.pritl.khim. 30 no.8:1141-1147 Ag '57. (MIRA 11:1)

1.Gosudarstvennyy institut prikladnoy khimii.

(Systems (Chemistry))





Gel'perin, N. I., Doctor of Technical Sciences

64-58-2-6/16

AUTHORS:

Kogan, V. B., Candidate Technical Sciences

TITLE:

Mechanical Removal of Liquid by Secondary Steam in Chemical Evaporators (Mekhanicheskiy unos zhidkosti vtorichnym parom

v vyparnykh apparatakh)

PERIODICAL:

Khimicheskaya Promyshlennost', 1958, Nr 2, pp. 32-37 (USSR)

ABSTRACT:

In the present paper the mechanism of the liquid removal in boiling, as well as the influence of the construction and the operation mode if the chemical evaporator are investigated; a method of approximation for the determination of the dimensions of the steam chamber is worked out. Schematic representations of the apparatus used in the investigations are given in two constructional modifications. They consists of a pipe of a length of 1000 mm which is divided into eight segments; it is electrically heated and has 4 little tubes arranged at various heights for steam take-off. The secondary steam condenses in the lowest segment, while the removal of it is determined by the determination of the content of substance in the segment above

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CIA-RDP86-00513P000722 APPROVED FOR RELEASE: 09/18/2001

64-58-2-6/16

Mechanical Removal of Liquid by Secondary Steam in Chemical Evaporators

it. The intensity of heat and the heating temperature, the operational pressure, the kind of liquid and its concentration, as well as the height of the liquid column were changed in the course of the experiments. Water was evaporated as well as aqueous solutions of salts at various concentrations: KCl (to 25%), K2Cr2O7 (to 20%), K2CrO4 (to 25%), NaNO3 (to 40%) and Na2SO4(to 25%). From a diagram of the function removal height of steam space it can be seen that the latter can be divided into three zones: that filled with the boiling liquid, that of the thrown up liquid, and that of the thrown-up splashes. The results of observation coincide with those by M. D. Panasenko (ref 1); it was found that most of the removaltakes place by the throwing-up of the liquid and not, as is often assumed, by the throwing-up of the liquid drops. From a mathematical deduction can be seen that the dynamic liquid level of non-foaming liquids is a function of the relative steam velocity. The results of the experiments on the changes of the dynamic liquid level in dependence on heat intensity, heated surface and pressure are graphically represented; here

Card 2/4

Mechanical Removal of Liquid by Secondary Steam in Chemical 64-58-2-6/16 Evaporators

it was found that of water and salt solutions no greater values are obtained for the latter. The linear function of relative steam velocity related to the diameter of the pipe coincides with the observations by Peterson (ref 2). An explanation is given for the absence of a remarkable effect of the physico-chemical properties of liquids. From a mathematical deduction can be seen that the height reached by the liquid projected into the steam space is directly proportional to the volume stress of the evaporation level. The authors give mathematical deductions as well as graphical representations of data for the determination of the dynamic liquid level and the relative height of the steam space, corresponding to the zonal limits, from greater amounts of thrown-up liquid and splushes; from the final formula can be seen that the relative height of the steam space depends on the constructional dimensions and the operation mode of the chemical evaporator, the conditions of circulation, as well as on the above mentioned volume stress.

Card 3/4

Kechanical Removal of Liquid by Secondary Steam in Chemical 64-58-2-6/16
Evaporators

There are 12 figures and 3 references, 2 of which are Slavic.

AVAILABLE: Library of Congress

1. Evaporators--Design 2. Evaporators--Performance 3. Liquids
--Separation 4. Steam--Performance

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AUTHOR:

Kogan, V. B.

76-32-5-23/47

TITLE:

A Method for Testing and Predicting Data on the Phase Equilibrium in Multicomponent Systems. I. (Metod proverki i predskazaniya dannykh o fazovom ravnovesli v mnogokomponentnykh

sistemakh I.)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 5, pp. 1095-

-1102 (USSR)

ABSTRACT:

An extremely convenient method for binary systems was described by Redlich and Kister (Ref 2) while ternary and multicomponent systems were little elaborated; Steinhauser and White (Ref 3) used the equation by Dyngem-Margules, which, however, was not practically applied and still has disadvantages in its present, modified form. The method proposed by Krishnamurti and Venkata Rao (Ref 16) has only a restricted field of application; in this paper a method is proposed which is free of the assumption of a random certain form of the function of excess free mixing energy on the composition. Ternary systems are given as examples, with the change of the composition being represented accoming to the method of the secant and the cross section, as the latter is especially important in .extractive rectification processes. From the given types of com-

Card 1/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723620002-9"

A Method for Testing and Predicting Data on the Phase Equi- 76-32-5-23/47 librium in Multicomponent Systems. I.

putation can, among others, be seen that an analogous equation to that by Redlich and Kister is obtained and from it then an equation for the checking or the prediction of the data on the equilibrium in binary systems without having to compute the activity coefficients of each constant. For reasons of illustration this method is then used in the systems: ethanol—dichlorethane—hensene; acetone—methanol—water, and acetone—chloroform—methylisobutylketon; graphical and tabular results are given. From the comparisons of the results of the works already carried out for the se determinations can be seen that the mentioned equations can be applied. There are 4 figures, 1 table, and 26 references, 5 of which are Soviet.

ASSOCIATION:

Institut prikladnoy khimii, Leningrad

(Leningrad, Institute of Applied Chemistry)

SUBMITTED:

January 28, 1957

1. Organic compounds-Theory 2. Chemical equilibrium

Card 2/2

SOV/80-32-4-25/47

5(3)

AUTHORS:

Kogan, V.B., Fridman, V.M. and Romanova, T.G.

TITLE:

The Separation of Mixtures of Alcohols and Hydrocarbons by the Method of Extraction (Razdeleniye smesey spirtov i uglevodorodov

metodom ekstraktsii)

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 4, pp 847-852 (USSR)

ABSTRACT:

Mixtures of alcohols and hydrocarbons are obtained in some technological processes, and this necessitates finding an effective method of their separation. In the present investigation the authors studied a possibility of such a separation by means of extraction. Ethylene glycol was chosen as a solvent. To estimate quantitatively the effectiveness of separation by this method, data on equilibria between the liquid phases in the system alcohol hydrocarbon - ethylene glycol were necessary. The system consisting of butyl alcohol, heptane and ethylene glycol was taken as an example. Data on the composition and specific weight of saturated solutions in this system were compiled in Table 1, these data were used for plotting the curves of relationship in Figure 1, and a triangular diagram of equilibria, pictured in Figure 2, was drawn.

Card 1/2

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The Separation of Mixtures of Alcohols and Hydrocarbons by the Method of Extraction

composition of equilibrium phases and of a mixture at a critical point, found by Alekseyev's method, are shown in Table 2. The analysis of the results has shown that the application of pure ethylene glycol, as well as its aqueous solution ensures a complete separation of initial mixtures after a single or double rinsing. Pure hydrocarbon is obtained directly in the process of extraction; alcohol can be separated from the lower layer by means of mere rectification.

There are 3 graphs, 3 tables and 3 Soviet references.

SUBMITTED:

December 21, 1957

Card 2/2

SOV/76-33-2-6/45

5(4) Truthors:

Kogan, V. B., Tolstova, T. S.

· TITLE:

Properties of Tricomponent Azeotropic Mixtures of Components With Limited Mutual Solubility II (O svoystvakh trekhkom-ponentnykh azeotropnykh smesey, obrazovannykh komponentami s ogranichennoy vzaimnoy rastvorimost'yu. II)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 2,

pp 276 - 278 (USSR)

ABSTRACT:

In work reported in a previous paper (Ref 1) it was found that in regard to these particular mixtures the relative content of each component with poorer mutual solubility must be greater than in the case of binary azeotropic mixtures. Since another paper (Ref 2) gave data which were not in agreement with this observation the authors investigated the following systems: alcohol - water - trichloro-ethylene; allyl alcohol - water - hexane; isopropanol - water-nitromethane; and hexyl alcohol - water - benzene. The experiments utilized a column with an efficiency of 45 theoretical plates. The composition of the binary azeotropes propanol-water and propanol-trichloroethylene was determined

Card 1/2

SOV/76-33-2-6/45

Properties of Tricomponent Azeotropic Mixtures of Components With Limited Mutual Solubility II

from the refractive index obtained using a IRF-22 refractometer. The experimental results obtained (Tables 2,3) show that the data given in reference 2 are incorrect and that the principle mentioned above holds also for the systems investigated here. In doing so the possibility of applying the relationship between the composition of binary and ternary ascotropic mixtures to the testing of experimental data was reconfirmed. There are 3 tables and 4 references, 3 of which are Soviet.

ASSOCIATION:

Gosudarstvennyy institut prikladnoy khimii Leningrad (State

Institute of Applied Chemistry, Leningrad)

SUBMITTED:

June 25, 1957

Card 2/2

AUTHORS:

Kogan, V. B., Safronov, V. M.

SOV/76-33-6-28/44

TITLE:

A Method of Calculating the Equilibrium Between Liquid and Vapor in Three-component Systems II (Motod rascheta ravnovesiya mezhdu zhidkost'yu i parom v trekhkomponentnykh sistemakh. II)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 6, pp 1353-1359 (USSR)

ABSTRACT:

On the basis of results obtained in a previous paper (Ref 13), a graphoanalytical method of calculating the equilibrium between liquid and vapor of three-component systems from data

of binary systems was worked out. The method is based on the following: To the same extent as the third component is added to the binary system, the coefficient of relative volatility changes decreasingly with the change in relative concentration of the components forming the binary system, and tends to a terminal value $X_3 = 1$ for which γ_1/γ_2 is constant (γ_1 and γ_2 activity coefficients of the first and second components) and the maximum possible change of relative volatility of the first and second components (caused by the third component) is attained. By the data on the equilibrium of three binary

Card 1/3

A Method of Calculating the Equilibrium Between Liquid and Vapor in Three-component Systems II

sov/76-33-6-28/44

systems generated by the components of a ternary system, the position of the straight line can be determined which represents the activity coefficients of two arbitrary components as a composition (at a concentration of the function of the third component equal to zero or unity. By equation (1) (Ref 13), the function of the mean change in relative volatility on the concentration of the third component can be determined: $\lg(\gamma_1/\gamma_2)_{\text{mean}} = (Q_{13} - Q_{23}) / (1 - X_3)$. The change in relative volatility at any concentration of the third component can be regarded as a change which occurs at $X_3 = 1$. The method is illustrated by the system acetonemethanol-water. To check the method of calculating, it was also applied to the systems butane-butene-furfurol, isobutanebutene-furfurol, methanol-carbon tetrachloride-benzene, benzene-cyclohexane-isopropanol, acetone-chloroformmethylisobutylketone, heptane-methanol-toluene, methylethylketone-heptane-toluene. A comparative table of the vapor compositions calculated by the described method, and determined by experiment, of the systems acetone-methanol-water,

Card 2/3

CIA-RDP86-00513R000723620002-9 "APPROVED FOR RELEASE: 09/18/2001

A Method of Calculating the Equilibrium Between Liquid and Vapor in Three-component Systems II

SOV/76-33-6-28/44

methanol-carbon tetrachloride-benzene, and methylethylketone-heptane-toluene is given. There are 4 figures, 1 table, and 14 references, 4 of which are Soviet.

ASSOCIATION:

Gosudarstvennyy institut prikladnoy khimii, Leningrad (State Institute of Applied Chemistry, Leningrad)

SUBMITTED: November 30, 1957

Card 3/3

5 (4) AUTHORS:

Kogan, V. B., Fridman, V. M.,

SOV/76-33-7-12/40

Romanova, T. C.

TITLE:

Phase Equilibria in Systems Formed by Paraffin Hydrocarbons

and Alcohols of the Aliphatic Series

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 7, pp 1521 - 1525

(USSR)

ABSTRACT:

Among other methods, hydrogenation of aliphatic esters yields aliphatic alcohols, thus forming mixtures of the alcohols with hydrocarbons. For this reason, the physico-chemical properties of these mixtures are important. The authors investigated the liquid-vapor phase of the systems butanol (I) - heptane (II), (I) - octane (III), and (I) - nonane (IV). Data on the initial substances are given (Table 1). The above equilibrium was investigated by means of a circulation apparatus (Fig 1), and the composition of the samples (liquid and condensate of the vapor phase) was simultaneously determined by the method (Ref 11). The results (Tables 2-4) showed that there was a linear dependence between the logarithm of the ratio of activity coefficients of the components, on the one hand, and the composition, on the other, i.e. the solutions were almost regular.

Card 1/2

Phase Equilibria in Systems Formed by Paraffin Hydrocarbons and Alcohols of the Aliphatic Series

807/76-33-7-12/40

Explanation of data available in publications on the equilibrium between methanol (V) and ethanol (VI), on the one hand, and paraffin hydrocarbons (liquid-vapor), on the other, leads to the conclusion that these solutions are almost regular as well. The degree of deviation from Racult's law is reduced by an increase in the molecular weight of the alcohol (for the system with (V), the constant A = 0.970, with (VI), A = 0.905, and with (I), A = 0.710). Calculation of the composition of the azeotropic mixture of the system isopropanol - heptane (the experimental part was carried out by T. S. Tolstova) indicates that the resultant dependence of the above data on the equilibrium in the systems "aliphatic alcohol - paraffin hydrocarbon" permit predictions of the phase equilibrium. There are 4 figures, 4 tables, and 13 references, 3 of which are Soviet.

ASSOCIATION:

Gosudarstvennyy institut prikladnoy khimii, Leningrad (Leningrad State Institute of Applied Chemistry)

SUBMITTED: Card 2/2

December 18, 1957

S/080/60/033/007/015/020 A003/A001

AUTHORS:

Ogorodnikov, S. K., Kogan, V. B., Nemtsov, M. S.

TITLE:

The Properties of Binary Systems Formed by C5 Hydrocarbons

(Communication 1)

PERIODICAL: Zhurnal prikladnov khimii, 1960, Vol. 33, No. 7, pp. 1599-1607

TEXT: The development of an industrial method for obtaining isoprene by dehydration of isopentane necessitates the separation of mixtures of C_5 hydrocarbons. Data were obtained on the equilibrium between liquid and vapor in binary systems formed by C_5 hydrocarbons of various structure and also on their ability to form azeotropic mixtures with each other. The refractive index $(n_D$ and n_C) was determined by a $\frac{WP}{23}$ (IRF-23) refractometer with an accuracy of $\pm 2 \cdot 10^{-5}$ in differential measurements. The boiling points of pure substances and their mixtures were determined in a Sventoslavskiy's ebulliometer (Ref. 4) with an accuracy of ± 0.05 C. It was shown that in the binary systems formed by isoprene with n-pentane, isopentane, isopropylethylene, methylethylene and trimethylethylene, and isopentane with isopropylethylene, and n-pentane with trimethylene, only in the n-pentane-isoprene system an azeotropic mixture

Card 1/2

8/080/60/033/007/015/020 A003/A001

The Properties of Binary Systems Formed by C5 Hydrocarbons (Communication 1)

is formed. Literature data on the formation of other azeotropic mixtures are incorrect. Based on the data on the properties of the azeotropic mixture n-pentane-isoprene and on the boiling point of the mixtures, it was shown that in systems composed of C5 hydrocarbons small positive deviations from Racult's law are observed. The deviations increase in the series olefin-diene, paraffinolefin, paraffin-diene. The deviations from the additivity of the refractive index and the density of the solutions change in the same direction. The dependence of the activity coefficients of the components on the composition in systems formed by C5 hydrocarbons is sufficiently well expressed by equations of the theory of regular solutions. The deviations from the perfect case in the systems olefin-diene and paraffin-olefin are very small. In calculations for engineering purposes these systems can be considered as perfect. There are 8 tables, 2 graphs and 10 references: 3 Soviet, 3 English, 2 American and 2 Belgian.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka (All-Union Scientific Research Insitute of Synthetic Rubber)

SUBMITTED:

December 26, 1959

Card 2/2

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25652 8/080/60/033/012/006/024 D209/D305

5. 1160 2209, 1375, 1273

Oganodnikov, S.K., Kogan, V.B., and Nemtsov, M.S.

TITLE:

AUTHORS:

Liquid-vapor equilibrium in binary systems composed

of methanol and hydrocarbons

PERIODICAL: Zhurnal prikladnoy khimii, v. 33, no. 12, 1960,

2685 - 2693

TEXT: The present work is a continuation of earlier investigations in which it was shown that mixtures of some C_5 hydrocarbons cannot

be separated by straight fractionation due to the low values of their corresponding coefficients of relative volatility (a). The authors have now decided to study the possibility of increasing the relative volatility of hydrocarbons adding to the latter substances acting as separating agents in azeotropic and extractive rectification. Among possible separating agents, polar compound received greatest attention. Althought the use of methanol for the above purpose has been discussed parlier, very little has been

Card 1/4

25652 8/080/60/033/012/006/024 D209/D305

Liquid-vapor equilibrium in ...

written about binary systems consisting of methanol and hydrocarbons having an equal number of carbon atoms (isologs). The liquid-vapor equilibrium was studied using a modified Gillespie apparatus, in which the thermocouple pocket was placed directly in the sepain which the thermocouple pocket was placed directly in the sepain which the thermocouple pocket was placed directly in the sepain Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised by I.N. Bushmakin (Ref. 16: Z. P. in Bushmakin apparatus devised

 $\frac{\gamma_{\text{methanol}}}{\gamma_{\text{hydrocarbon}}} (\gamma = \text{activity coefficient})$

to liquid composition are represented graphically for paraffins, olefines and dienes. The curves obtained confirm that the experimental results are in agreement with a condition stipulated by the Redlich-Kister equation, i.e. the areas between the upper and low-

Card 2/4

25652 8/080/60/033/012/006/024 D209/D305

Liquid-vapor equilibrium in ...

er part of the log γM/γH = f(x) and abscisse are equal (where x is the methanol content in the liquid phase). For methanol-paraffin and methanol-diene systems the difference between the two areas is almost negligible but for the methanol olefine system this diffealmost negligible but for the methanol olefine system this diffealmost is considerably bigger. This is probably caused by inaccuracy of measurements in high methanol concentrations. The direct recy of measurements in high methanol concentrations. The direct relation is shown between activity coefficients of components and lation is shown between activity coefficients of components and composition of methanol-olefine systems. From the practical point of view liues obtained for one hydrocarbon may be utilized for determinity the properties of systems containing its isomers and homologues. The second important point which follows from this remologues. The second important point which follows from this remologues. The second important point which follows from this remologues. The second important point which follows from this remologues. The second important point which follows from this remologues. The second important point which follows from this remologues. The second important point which follows from this remologues as compared with ordinary rectification.

Maximum deviation from ideal conditions is shown by the comparating very high absolute values of log γM/γH and S-shape of the corresponding curves in the methanol-paraffin system. Straightening of the curve and reduction of log γM/γH values for olefinic and diene

Oard 3/4

25652 5/080/60/033/012/006/024 D209/D305

Liquid-vapor equilibrium in ...

hydrocarbons indicates that the addition of methanol to those systems should increase the relative volatility of the hydrocarbon. However, in general, it may be said that methanol is not suitable as a separating agent for the rectification of asomer mixtures of the same class. There are 6 figures, 10 tables and 21 references: 30 Soviet-bloc and 11 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: Chu Ju Chin, R.T. Getty, L.F. Brennecke, R. Paul: Distillation equilibrium data N.I., 1950; G. Scatchard, L.B. Ticknor: J. Am. Chem. Soc. 74, 13, 3724, 1952; O.Redlich, A.T. Kister: Ind. Eng. Chem. 40, 2, 345, 1948; G. Scatchard, S.E. Wood, I.M. Mochel: J. Am. Chem. Soc., 68, 10, 1957, 1946.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinte-ticheskogo kauchuka im. S.V. Lebedeva (All-Union Sci-

entific Research Institute of Synthetic Rubber, im.

S.V. Lebedev)

April 4 1960 SUBMITTED:

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Method of testing lic with a nonvolatile of D 160.	quid - vapor equilibrium da omponent. Zhur. fis. khim.	ta in ternary systems 34 no.12:2834-2837 (MIRA 14:1)	
1. Gosudars tvenney in	nstitut prikladnoy khimii, and equilibrium)	Leninguad.	

KOGAN, Vladimir Borisovich, doktor tekhn, nauk, Laureat Leninskoy
premil; SHUR, Ye.I., red.; LEVIN, S.S., tekhn. red.;
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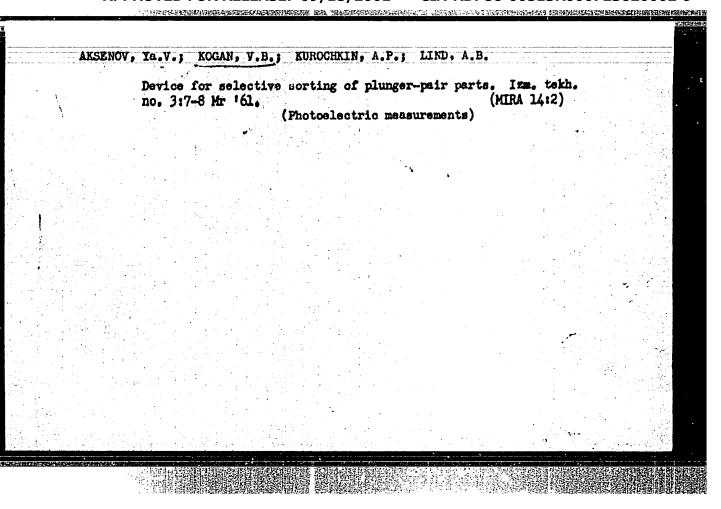
(Distillation, Fractional) (Azeotropy)

KOGAN, Vladimir Borisavich; FRIDMAN, Viktor Mikhaylovich; KAPAROV,
Viktor Vyacheslavovich; SUSHKOVA, T.I., red. izd-va; BLEYKH,
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1. Akademiya nauk SSSR. Institut nauchno-tekhnicheskoy informatsii.

(Solubility) (Systems (Chemistry))



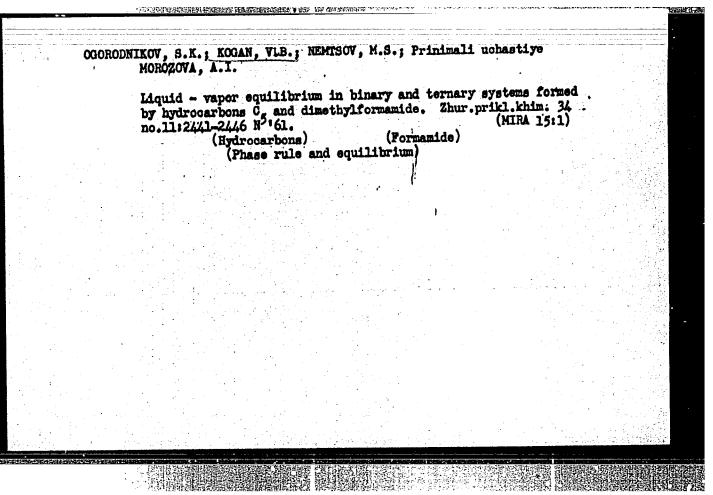
OGORODE	HIKOV, S.K.; K	COGAN, V.B.; NEMISON	V, M.S.		1.
	Liquid-vapor	equilibrium in bir Zhur, prikl. khir	nary systems formed a. 34 no.2:323-331 F	by hydrocarbons	
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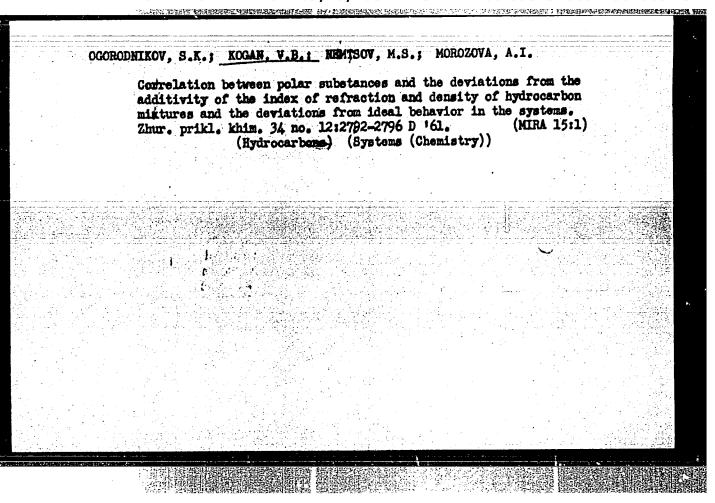
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ogorodnikov, s.k., kogan, v.B., nemisov, h.s.	
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(Formic soid) (Phase rule and equilibrium)	
시간 전 10 시간 10 시간 사용 11 시간 12 시간 	

OGORODNIKOV, S.K.; KOOAM, V.B.; MEMTSOV, M.S.; BUROVA, G.V.;
Prinimala uchastipe: MOROZOVA, A.I.

Liquid-vapor equilibrium in binary and ternary systems of C5 hydrocarbons and acetonitrile. Zhur. prikl. khim. 34 no.5: 1096-1102 My '61. (MIRA 16:8)

(Hydrocarbons) (Acetonitrile) (Phase rule and equilibrium)





KOCAN, Vladimir Borisovich; FRIDMAN, Viktor Kikhaylovich; KAPAROV,

Viktor Vyacheslavovich; SUSHKOVA, T.I., red. izd-va;

Hastki, E.Yu., tekim. red.

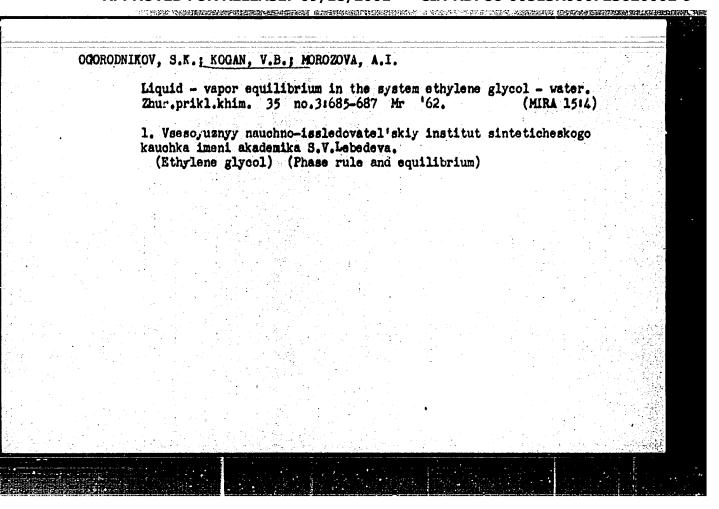
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+ ₁ = 4,	no.1:193-19	95 Ja '62. ing points)			(Liquids)	(MIRA 15:11)	
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